

Michigan Department of Health and Human Services (MDHHS)

Surveillance for Healthcare-Associated and Resistant Pathogens (**SHARP**) Unit

SHARP Symposiums



Welcome to the SHARP Symposiums!

- **Today:**

- Infection Prevention, LHDs, Pharmacists, Clinical Micro and Epis
- Healthcare-associated infections (HAI) and antimicrobial resistance (AR) topics
- HAI reporting
 - MDSS and NHSN
- Future ways to access HAI data
- Antimicrobial Stewardship
 - MDHHS overview, intro to AMS and Core Elements
 - AMS Practices
- NHSN LTC Component

Organizational Structure – SHARP Unit

- Michigan Department of Health and Human Services
 - Public Health Administration
 - Bureau of Epidemiology and Population Health
 - Communicable Disease Division (**CD Division**)
 - Healthcare-associated infections – Body Art – Tuberculosis – Viral Hepatitis (**HBTV**) **Section**
 - Surveillance for Healthcare Associated and Resistant Pathogens (**SHARP**) **Unit**

What We Do...

- Disease case, cluster, and outbreak investigations
- Link between the healthcare facilities and CDC/National Healthcare Safety Network (NHSN)
 - Voluntary reporting... and some required reporting
 - Analysis – annual reports, TAP reports – TAP assessments
- Infection prevention assistance to healthcare facilities – *consultative* role
- Infection Control Assessment and Response visits to facilities
 - State-driven effort to improve IP capacity
- Health Alerts Notifications
 - Call for cases
 - Recall
- Receive Infection Prevention Breach notifications from CMS for follow-up

SHARP Unit Overview

- HAI Coordinator / SHARP Unit Manager
 - **Brenda Brennan**
- Infection Prevention Consultant
 - **Noreen Mollon**
- Antimicrobial Resistance Epidemiologist
 - **Sara McNamara**
- Health Educator
 - **Chardé Fisher**
- NHSN Epidemiologist
 - **Elli Ray**
- Antimicrobial Stewardship Coordinator
 - **Anne Haddad**



SHARPIes Day to Day...



- **Brenda Brennan**

- Detection, containment, response and prevention activities of the SHARP Unit
- HAI Prevention Advisory Committee
- Lab-Epi Workplans, Surveillance, Response and Prevention Plans
- Point of contact with CDC DHQP

- **Noreen Mollon**

- Infection prevention consultations
- Investigations (non-CRE/AR)
- ICAR assessments, Special Pathogen Response Network and Biosafety issues
- Facility site visits - if CMS violation found (coordinate with LARA)

- **Sara McNamara**

- Investigations (AR/novel resistance)
- CP-CRE case reporting in MDSS and technical support
- Contact investigations and specimen hunter!
- CRE monthly and regional reports – CRE Surveillance and Prevention Initiative

SHARPIes Day to Day...



- **Chardé Fisher**

- Event planner extraordinaire!
- Makes HAI comprehensible to the public
- Factsheets, brochures, presentations, and flyers
- Website (content, organization, aesthetics) and social media campaigns

- **Elli Ray**

- All things NHSN... surveillance and reporting
- All things data... HAI data, TAP, and AU
- Web-based HAI tracker lead
- Data Steward for the HBTv Section

- **Anne Haddad**

- AMS Communities of Care
- Antimicrobial Stewardship Subcommittee
- Outpatient Prescribing Projects... BCM, Medicaid and CHARM
- AR Summit and Michigan Plan to Combat Antibiotic Resistant Bacteria

Examples of SHARP Investigations

- **October 2017**

- NDM-1 #13
- IMP #4 and #5

- **November**

- Possible novel resistance
 - *E. coli* (ESBL)
 - *Acinetobacter*

- **December**

- VIM #5

- **January 2018**

- OXA #10

- **February**

- VIM #5 again (different system)
- IMP #6

- **March**

- MCR-1 #4 (NARMS)
- OXA #11 and #12
- Possible MCR-1
- GAS

- **April**

- MCR-1 #5 (NARMS)
- VIM #6
- NDM #14
- *Burkholderia*
- Possible novel CRPA

- **May**

- NDM #15
- VIM #7
- *Serratia*

- **June**

- NDM #16/OXA-48 #13
- NDM #17

- **July**

- MCR-1 #6
- ACB Complex
- ESBL Cluster in NICU

- **August**

- IMP #7
- IMP #8
- OXA #14
- *M. szulgai*
- Possible novel *E. cloacae*

- **September**

- *M. arupense*
- Possible novel CRPA

Funding Sources 2018-2019

- **Epidemiology and Laboratory Capacity for Prevention and Control of Emerging Infectious Diseases (ELC)**
 - K1: HAI Detection, Containment, and Prevention
 - K2: Coordinated Prevention and Stewardship
 - K3: Antimicrobial Resistance Laboratory Network (ALRN)
- **Ebola Supplement to ELC**
 - Activity A: Special Pathogens Response Network (SPRN)
 - Activity B: Infection Control Assessment and Response (ICAR)
- **State Funding**
 - Infection Prevention Consultant position

Funding Sources 2019-2020

- ELC

- G1: Healthcare-associated Infections and Antibiotic Resistance Program (EPI)
- G2: Antibiotic Resistance Laboratory Network (AR Lab Network) (Lab)

National Healthcare Safety Network (NHSN)

- Healthcare-associated infections surveillance
 - National, web-based surveillance system
 - Federal and state reporting
 - Collects data needed to identify problem areas, measure progress of prevention efforts, and ultimately eliminate HAIs
- In Michigan, healthcare facilities voluntarily share NHSN data
 - HAIs not mandated to be reported
 - CLABSIs, CAUTIs, SSIs, CDI, MRSA Bacteremia, and VAE
 - HAI/AR *required* to be reported (by other means)
 - CP-CRE, *Candida auris*, VISA, and VRSA

Infection Control Assessment and Response (ICAR)

Infection Control Program Evaluation

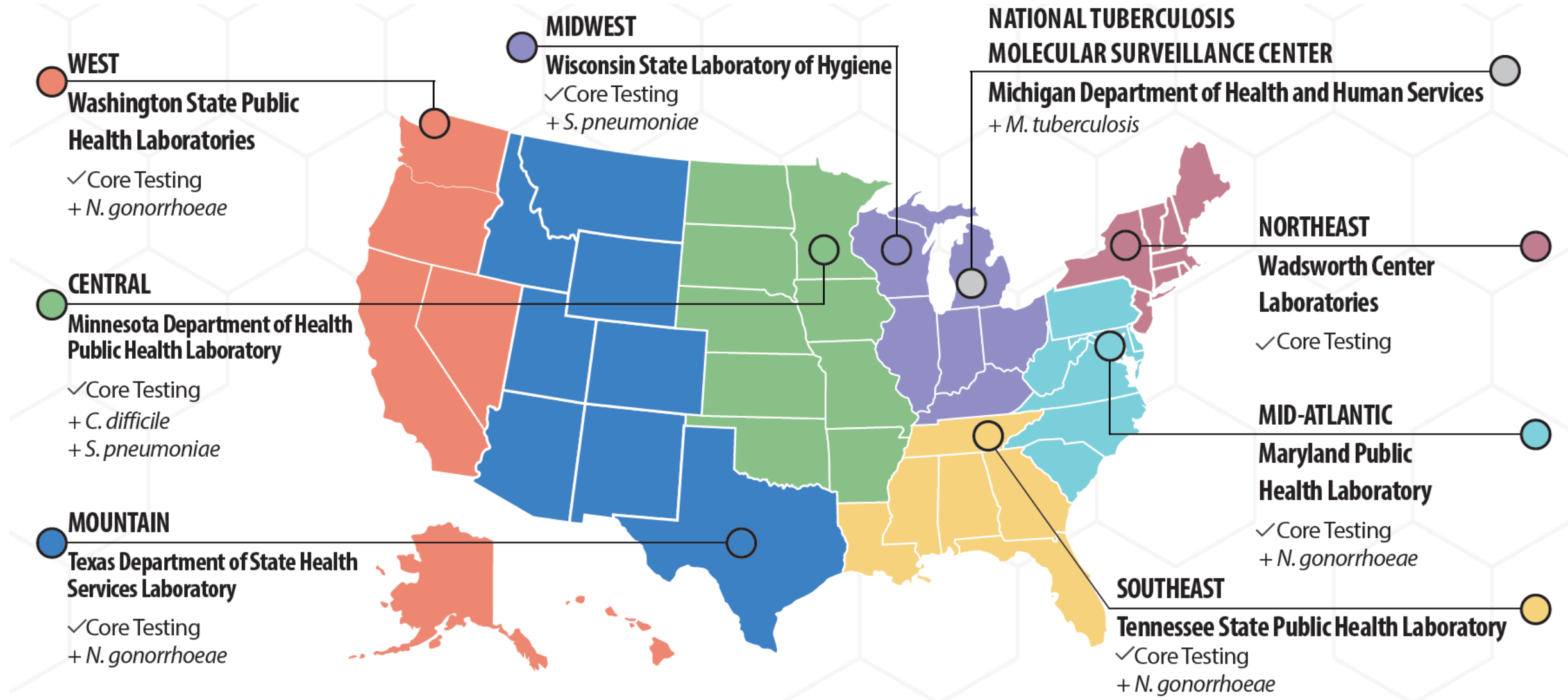
- Collaborative NOT regulatory
 - **SHARP Unit is NOT regulatory**
- Focus on quality improvement
- Strengthen your program – identify areas for improvement
- Chance to help guide national training efforts
- **Available to ACFs, LTACs, LTCs, SNFs, outpatient clinics, dentists and more!**

Antibiotic Resistance Laboratory Network (ARLN)

- Created in 2016
- 7 regional labs
- Lab capacity for 7+ 'urgent' or 'serious' AR pathogens
- Provides faster outbreak detection and response, better tracking of resistance
- Supports real-time, actionable data to prevent and combat future AR threats



CDC Antibiotic Resistance Laboratory Network



Today...

- Please ask questions
- Network with partners
- Enjoy the day!!

